1.

Simplify each of the following:

(a) $7(x - 2) + 5(2x + 3)$

(b) $4(3a - 4) - 6(2a - 1)$

(c) $-3(1 + 3t) - (t + 3)(1 + 4)$

(d) $-5(22 - 31y) + 22(4y + 3)$

2.

Simplify each of the following:

(a) $\dfrac{12 - 4c}{4} + \dfrac{27 + 18c}{3}$

(b) $\dfrac{1}{2}(6 - 4y) + \dfrac{3}{2}(6y + 4)$

(c) $3r + 7 - \dfrac{24 - 16r}{8}$

(d) $\dfrac{x - 7}{3} - \dfrac{5 - x}{2}$

3.

Solve each of the following equations:

(a) $t + 235 = 137$

(b) $a + \dfrac{7}{9} = \dfrac{-2}{9}$

(c) $-6\dfrac{1}{10} = -14 + c$

(d) $-2y + 2\dfrac{3}{5} + 3y = 1\dfrac{7}{10}$

4.

Solve the equation $\dfrac{x-3}{7} = 2$.